

1 EXCEPTION HANDLING COMPILER APPARATUS, PROGRAM, RECORDING
2 MEDIUM, AND COMPILING METHOD

3 ABSTRACT

4 Compiler apparatus, methods and systems for optimizing exception handling in a
5 program. An example apparatus comprises an exception handler detection section for
6 detecting, from exception handlers that catch exceptions thrown in the program, a
7 multiple-catching exception handler that catches a plurality of different exceptions and
8 rethrow the caught exceptions; an exception selection section for selecting a set of
9 exceptions that are to be shifted to common processing through rethrow of the exception
10 by the multiple-catching exception handler from among the plurality of exceptions caught
11 by the detected multiple-catching exception handler; and an exception handler throw
12 section for throwing a clone exception handler that catches the set of exceptions selected
13 by the exception selection section instead of the multiple-catching exception handler and
14 shifting it to common processing.

15 [Selected Drawing] Figure 1